

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

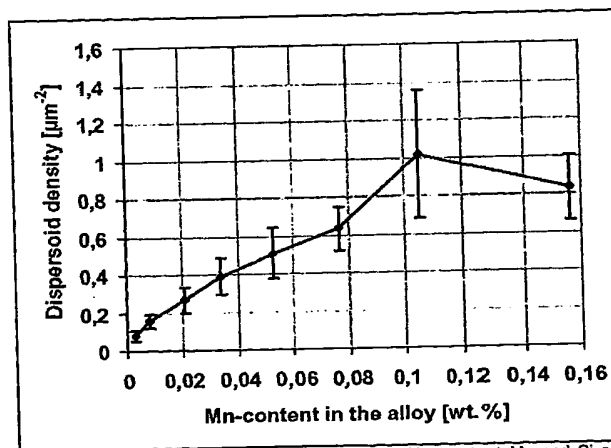
PCT

(10) International Publication Number
WO 2005/038063 A1

- (51) International Patent Classification⁷: **C22C 21/08**
- (21) International Application Number:
PCT/NO2004/000315
- (22) International Filing Date: 15 October 2004 (15.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20034731 22 October 2003 (22.10.2003) NO
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: **Al-Mg-Si ALLOY SUITED FOR EXTRUSION**



Dispersoid density in 6060 types of alloys with constant Mg and Si and Fe contents versus the Mn content of the alloys.

(57) Abstract: Aluminium alloy containing Mg and Si, in particular useful for extrusion purposes containing in wt%.: Mg 0,3 - 0,5; Si 0,35 - 0,6; Mn 0,02 - 0,08; Cr 0,05; Zn 0,15; Cu 0,1; Fe 0,08 - 0,28 and in addition grain refining elements up to 0,1 wt% and incidental impurities up to 0,15 wt%. The manganese (Mn), within the specified limits, has an additional positive effect on the extrudability of an AlMgSi alloy. In addition to promoting the transformation of the AlFeSi intermetallic phases, AlMnFeSi dispersoid particles are formed during homogenisation. These particles are acting as nucleation sites for Mg₂Si particles during cooling after homogenisation. In a high quality billet the Mg₂Si particles formed during cooling after homogenisation should easily dissolve during the preheating and the extrusion operation before the material reach the die opening.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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